SUPPLEMENTAL
Notice of Allowability

Application No.	Applicant(s)
09/551,466	TAKAHASHI, SADAO
Examiner	Art Unit
Mehrdad Dastouri	2623

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	Mehrdad Dastouri	2623	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (of herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGORY of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in this appropriate communication GHTS. This application is subject to	olication. If not includ will be mailed in due	ed course. THIS
1. This communication is responsive to correspondence filed of	on February 22, 2005.		
2. ☑ The allowed claim(s) is/are <u>1-24, 27, 28, 31-52 and 55, 56, </u>	59-64, 66 and 68 (Renumbered 1-5	<u>58)</u> .	
3. The drawings filed on are accepted by the Examiner.		•	
 4. Acknowledgment is made of a claim for foreign priority unday a) All b) Some* c) None of the: 1. Certified copies of the priority documents have to certified copies of the priority documents have to copies of the certified copies of the priority documents have to copies of the certified copies of the priority documents have to copies	been received. been received in Application No uments have been received in this f this communication to file a reply	national stage applica	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives			IOTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperso 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the DEPOSIT OF and/or INFORMATION about the deposition of the control of	on's Patent Drawing Review (PTO- Amendment / Comment or in the C (c)) should be written on the drawing the header according to 37 CFR 1.121	Office action of ngs in the front (not the	·
attached Examiner's comment regarding REQUIREMENT F			Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	 5. ☐ Notice of Informal P 6. ☑ Interview Summary 	(PTO-413),	O-152)
 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date <u>December 17, 2004</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit 	Paper No./Mail Dai 3), 7. ⊠ Examiner's Amendr 8. ⊠ Examiner's Stateme	ment/Comment	owance
of Biological Material	9. ⊠ Other <u>PTO-90C</u> .	on Auduono for All	,

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Examiner's Amendment

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Surinder Sacher (Registration No. 34,423) on March 17, 2005.
- 3. The application has been amended as follows:

 Claims 29, 30, 57, 58, 65 and 67 have been cancelled.

Allowable Subject Matter

4. The following is an examiner's statement of reasons for allowance:

The instant invention recites binarization apparatus comprising a block division unit that divides a multi-valued image into blocks and a binarization threshold value setting unit that sets a binarization threshold value to be used when binarizing the multi-valued image. A low luminance value removal unit inputs luminance values of each pixel forming the selected object blocks from among luminance values output by luminance value output unit, removes luminance values that are lower than the low luminance threshold value set by low luminance threshold value setting unit, and outputs only those luminance values which exceed the low luminance threshold value. A mean luminance value calculator calculates mean luminance values using luminance values from which luminance values that do not reach the low luminance threshold value in a block have been removed. The low luminance threshold value setting unit sets the low

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luminance threshold value based on mean luminance values of blocks adjacent to the object blocks, and the binarization threshold value setting unit sets the binarization threshold values of the object blocks based on mean luminance values of the blocks.

The instant invention, in other embodiments, further recites an interpolation block setting unit for setting interpolation blocks which cover pixels extending over two or more adjacent object blocks from among object blocks selected by the object block selection unit.

The features identified, in combination, are neither discussed nor suggested by the prior arts of record.

- 5. Claims 1-24, 27, 28, 31-52 and 55, 56, 59-64, 66 and 68 are allowed.
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mehrdad Dastouri whose telephone number is (703) 305-2438. The examiner can normally be reached on Monday to Friday from 8:00 a.m. to 4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on (703) 308-6604. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mehrdad Dastouri Primary Examiner Art Unit 2623 March 23, 2005

MEHRDAD DASTOURI PRIMARY EXAMINER

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